

Table 3-38: Emissions of HFCs and PFCs from ODS Substitution (Tg CO<sub>2</sub> Eq.)

<b>Gas</b>	<b>1990</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
HFC-23	+	+	+	+	+	0.1	0.1	0.2	0.2	0.3	0.4	0.5
HFC-32	+	+	+	+	+	+	+	+	+	+	0.1	0.2
HFC-125	+	+	0.7	1.3	0.8	1.3	1.9	2.5	3.1	3.6	4.4	5.2
HFC-134a	0.7	0.7	0.8	3.8	5.8	15.9	21.1	26.2	30.0	33.9	37.6	41.0
HFC-143a	+	+	+	+	0.2	0.4	0.8	1.3	1.9	2.6	3.4	4.3
HFC-236fa	+	+	+	+	+	+	+	0.1	0.8	1.3	1.9	2.3
CF <sub>4</sub>	+	+	+	+	+	+	+	+	+	+	+	+
Others*	0.2	0.1	0.0	0.1	1.5	4.0	6.6	7.5	8.5	9.1	9.6	10.1
<b>Total</b>	<b>0.9</b>	<b>0.8</b>	<b>1.5</b>	<b>5.2</b>	<b>8.4</b>	<b>21.7</b>	<b>30.4</b>	<b>37.7</b>	<b>44.5</b>	<b>50.9</b>	<b>57.3</b>	<b>63.7</b>

+ Does not exceed 0.05 Tg CO<sub>2</sub> Eq.

\* Others include HFC-152a, HFC-227ea, HFC-4310mee, and PFC/PFPEs, the latter being a proxy for a diverse collection of PFCs and perfluoropolyethers (PFPEs) employed for solvent applications. For estimating purposes, the GWP value used for PFC/PFPEs was based upon C<sub>6</sub>F<sub>14</sub>.

Note: Totals may not sum due to independent rounding.